## AMENDED CLAIMS

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## PATENT CLAIMS

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- Complete ammunition round (1) intended to loaded as a coherent unit primarily in electrothermal and/or electrothermochemical weapon systems, 5 comprises a propellent charge (6) (1)round propulsion of a projectile (3) through a barrel and which projectile (3) is arranged on the front end (17) of the propellent charge, a bottom piece (5) which is arranged on the rear end (14) of the propellent charge 10 and a firing device (4,4a, 4b) arranged, preferably detachably, on the bottom piece characterized in that the round (1) is caseless and elongate inner component comprises an (2) stiffening and holding together, which inner component 15 is arranged on or in close proximity to the projectile (3) and mounted, preferably detachably, on the firing device (4, 4a, 4b) through the propellent charge (6), in that the propellent charge (6) consists of a load-absorbing propellent charge (6) which has 20 such rigidity and strength that, in heavier ammunition as well, a considerable proportion of the loads which are detrimental to the functioning of the round (1) and can occur during normal storage, handling and/or use of the round (1) is taken up only via the propellent 25 charge (6) and the inner component (2), and which propellent charge (6) comprises an, at least external, insulating surface, coating and/or application (9, 9a) which is nevertheless of insufficient rigidity and robustness to bear the abovementioned loads. 30
  - 2. Complete ammunition round (1) according to Claim 1, characterized in that the inner component (2) constitutes a load-transferring element, for example a rod or tube, anchored firmly between the projectile (3) and the firing device (4, 4a, 4b).

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3. Complete ammunition round (1) according to one of the preceding claims, characterized in that the inner component (2) is made of a combustible material, for example a plastic composite.

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4. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the propellent charge (6) is attached to the component (2) via an adhesive connection.

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- 5. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the propellent charge (6) is arranged so as to engage in at least a rear part (8a, 11, 18) of the projectile (3) and/or a front part (8b, 22) of the bottom piece (5).
  - 6. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the propellent charge (6) consists of a multi-perforated (16), progressive block powder (6).
  - 7. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the propellent charge (6) comprises a plurality of part elements which are joined together by means of a suitable binder to form a finished, cartridge-shaped propellent charge (6).
- 8. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the insulating surface (9a) comprises a non-load-bearing, at least outer, shrink film.
- 9. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the insulating coating (9) consists of a non-load-bearing dimeric or polymeric raw material comprising hydrocarbons, such as poly-para-xylylene.

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10. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the application (9) consists of painting or other covering by means of a solution or emulsion.

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11. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the insulating surface, coating or application (9, 9a) is moisture-repellent or moisture-proof.

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12. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the insulating surface, coating or application (9, 9a) is electrically insulating.

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13. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the insulating surface, coating or application (9, 9a) covers all sides (7a, 7b) of the propellent charge (6).

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14. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the bottom piece (5) is made of combustible material, suitably a fibre composite.

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- 15. Complete ammunition round (1) according to any one of the preceding claims, characterized in that the firing device (4) consists of a plasma torch (4a).
- 30 16. Complete ammunition round (1) according to any one of Claims 1-15, characterized in that the firing device (4) consists of a fuse (4b).
- 17. Method of manufacturing a caseless, complete
  35 ammunition round (1) which is loaded as a coherent unit
  primarily in electrothermal and/or
  electrothermochemical weapon systems, which round (1)
  comprises a propellent charge (6) which propels a
  projectile (3) through a barrel and which projectile
  40 (3) is arranged on the front end (17) of the propellent

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charge, a bottom piece (5) which is arranged on the rear end (14) of the propellent charge (6), and a device (4, 4a, 4b) arranged, preferably firing detachably, on the bottom piece (5), according to any of Claims 1-16, the component parts of 5 projectile part (3) being assembled in a conventional manner, characterized in that the inner component (2) is mounted on the projectile part (3) via a connection (25), the propellent charge (6) is slipped onto the 10 component (2), after which the bottom piece (5) applied, and the firing device (4) is attached to the inner component (2).

- 18. Method of manufacturing a caseless, complete
  15 ammunition round (1) according to any one of Claims 116, characterized in that the inner component (2) is
  first mounted on the bottom piece (5) via the firing
  device (4), then to be guided through the hole (15) of
  the propellent charge (6) and attached to the
  20 projectile part (3) via a front connection (25).
- 19. Method of manufacturing a caseless, complete ammunition round (1) according to any one of Claims 116, characterized in that the propellent charge (6) is
  25 applied to an inner rod (2) assembled with other component parts by the propellent charge (6) being divided into at least two sections which are joined at least to one another, but preferably also to the inner component (2), the projectile (3), the firing device 30 (4) and/or the bottom piece (5), via a suitable connection.
- 20. Method of manufacturing a caseless, complete ammunition round (1) according to any one of Claims 1-19, characterized in that the propellent charge (6) is 35 manufactured from a suitably homogeneous, compressionmoulded powder block which is subsequently provided with perforations (16) in a predetermined pattern and order to bring about the number in desired 40 progressiveness.

of manufacturing a caseless, 21. Method ammunition round (1) according to any one of Claims 1-20, characterized in that an insulation coating (9) is applied over at least the outer sides and/or inner 5 sides (7a, 7b) of the propellent charge (6), via three comprising vaporization of а polymeric raw material, the polymer or the dimer first being transformed from solid phase to gas phase and increased temperature, being 10 a further at transformed to a reactive monomer gas which is made to polymerize on the propellent charge (6), a thin inner and outer insulating surface layer (9) being deposited on all accessible surfaces (7a, 7b).

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- 22. Method of manufacturing a caseless, complete ammunition round (1) according to any one of Claims 1-21, characterized in that mounting also comprises a suitable binder being applied between one or more of the component parts making up the round (1).
- 23. Method of manufacturing a caseless, complete ammunition round (1) according to any one of Claims 1-22, characterized in that the propellent charge (6) is already pre-insulated by means of any one of the said insulations (9) when mounting takes place.
- 24. Method of manufacturing a caseless, complete ammunition round (1) according to any one of Claims 1-30 23, characterized in that final insulation (9) of the round (1) is effected by coating, painting or other covering or by a thin, non-load-absorbing, moisture-repellent or moisture-proof outer surface or film (9a) being applied.

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25. Use of the ammunition round (1) according to any one of the preceding claims, characterized in that the ammunition round (1) is used in other more conventional weapon systems than the said electrothermal and/or electrothermochemical weapon systems.